**Dynamic classifiers** manufactured by **GRUBER HERMANOS, S. A.** are suitable for separation of fine, ultrafine and micronized materials, where **high accuracy** in cutting the maximum output size is required.

This type of classifier is suitable for cuts of between 20µm (microns) and 1 mm.

Major advantages of dynamic classification systems manufactured by GRUBER HERMANOS, S.A.

➢ Adjustable cutting size with an accuracy of ±1µm.
➢ A wide range of products can be obtained by simply adjusting the speed of the rotary cage. The are no overcosts , as no auxiliary equipment is required.
➢ They are suitable for products with a certain moisture content. The air stream that transports the product will reduce the moist content.
➢ The discharge point can be set at a considerable distance (vertical or horizontal) from the feed, because it operates as a pneumatic transport, and the product is conducted by an air stream.

MARK	
A	CLASSIFIER
B	CYCLONE
C	AIR FILTER
D	FAN
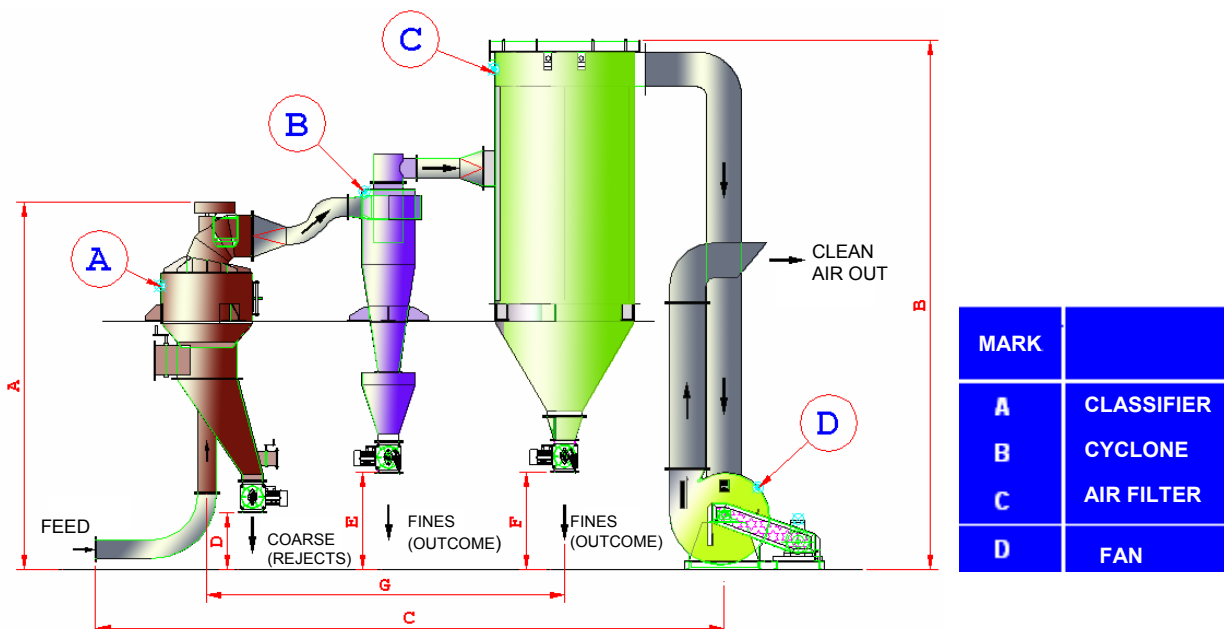
TYPE	KW (HP)	CAPACITY ** kg/h	A	B	C	D	E	F	G
CC 150	12,5 (17)	1 000	2 500	3 500	3 500	800	800	800	1 500
CC 200	22 (30)	2 000	3 800	4 000	4 800	1 000	1 000	1 000	1 500
CC 300	34 (45)	3 000	4 850	5 000	5 500	1 000	1 000	1 000	2 500
CC 400	55 (75)	4 000	5 750	5 500	6 000	1 500	1 500	1 500	3 000
CC 400/4	75 (100)	5 000	5 900	5 500	6 500	1 500	1 500	1 500	4 000
CC 500	90 (120)	6 000	5 900	8 500	7 500	1 500	1 500	1 500	4 000
CC 600	97 (130)	7 000	6 000	8 500	8 000	1 500	1 500	1 500	4 000

*Aprroximate dimensions in mm.
**Capacity is up to fineness and cut point.

Operation Principle

The product is drawn airborne into the machine. The air stream flows through a spinning classifier cage before coming out of the classifier.

The speed of the cage determines the maximum particle size that is allowed to go through it, because this happens when the particle's upgoing speed is higher than the cage's rotation speed.

By increasing or decreasing the speed of the rotation of the classifier cage, the maximum particle size that allowed through it will be respectively smaller or larger.

Using a frequency converter to regulate the speed of the motor grader cage, you can set the maximum particle size to the output of dynamic classifier.

Remember:

A higher rotational speed:
- Smaller particle diameter
- Finer material

salida finos

rechazo gruesos

entrada producto

rechazo gruesos
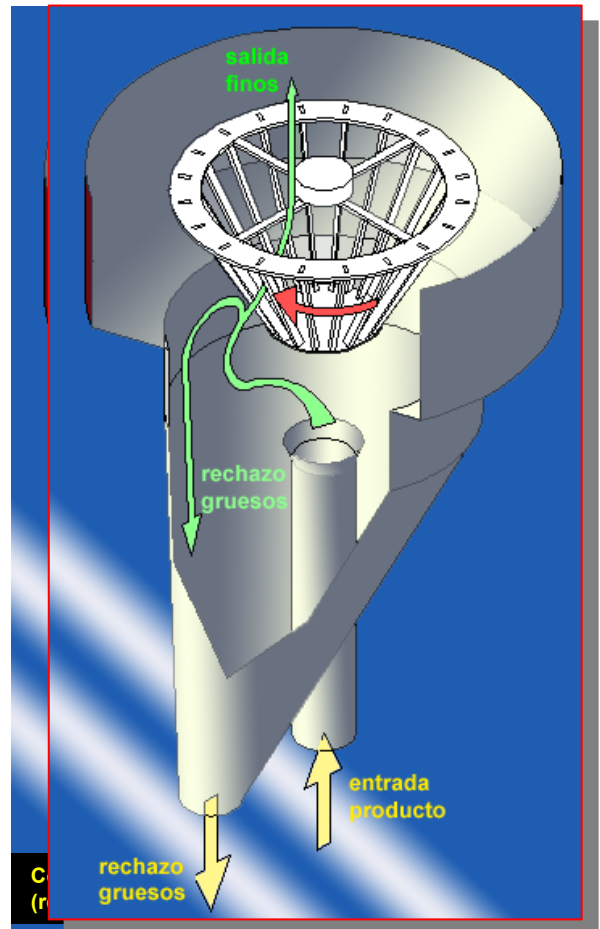
The dynamic classifier are usually placed after the grinding stage, so that all the ground material reaches the classifier and coarse particle return to the mill to be re-ground until the desired size is achieved.

This way it is assured that 100 % of the outcoming product meets 100 % the desired size.

FINES (OUTCOME)

DYNAMIC CLASSIFIER

FEED

COARSE (REJECTS)

MILL
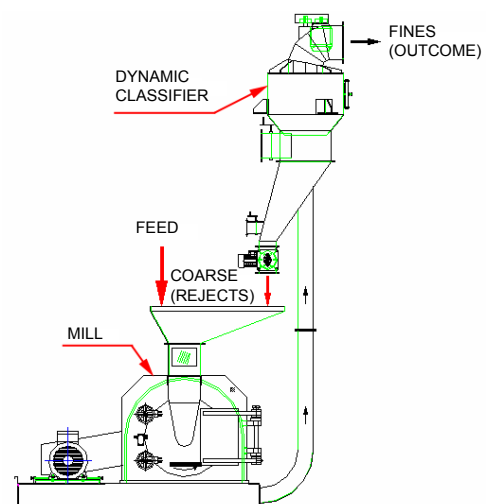
Our technical and commercial team will be happy to address any questions or requests classification processes and to find a solution that meets all your requirements, thanks to our expertise.